



# WATER IS FUTURE

BUT IT NEEDS SOLUTIONS IN THE PRESENT

## EXTENDED CLEANING STAGES FOR BATCHPUR SMALL WASTEWATER TREATMENT PLANTS

### Elimination of

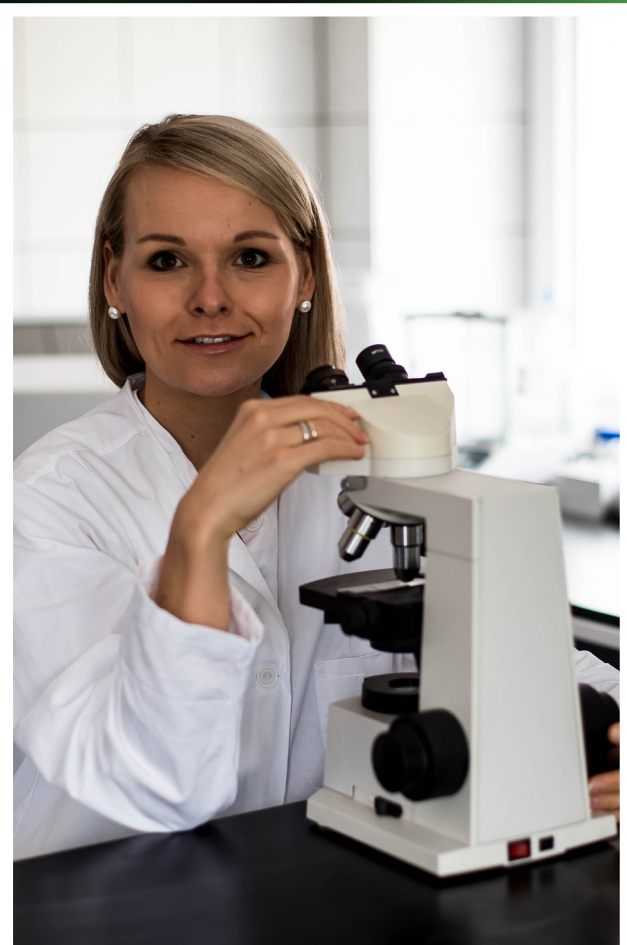
- Nitrogen
- Phosphate
- Bacteria and viruses
- Drug residues
- Household chemicals
- Biocides



[www.batchpur.com](http://www.batchpur.com)



High-quality treatment technology with extended purification stages for a safe future – convincing through quality, durability, and functionality.



“

„The emphasis of our corporate philosophy is on research and development of new, innovative, and easy-to-use products for safe and sustainable decentralized wastewater treatment to protect our ecosystem. With our interdisciplinary team of technicians, engineers, and chemists, we research processes and solutions to protect the precious life resource that is water“

**Dr. Ruth Rau**



## EXTENDED SYSTEMS FOR BATCHPUR AND AERO CLEANING SYSTEMS

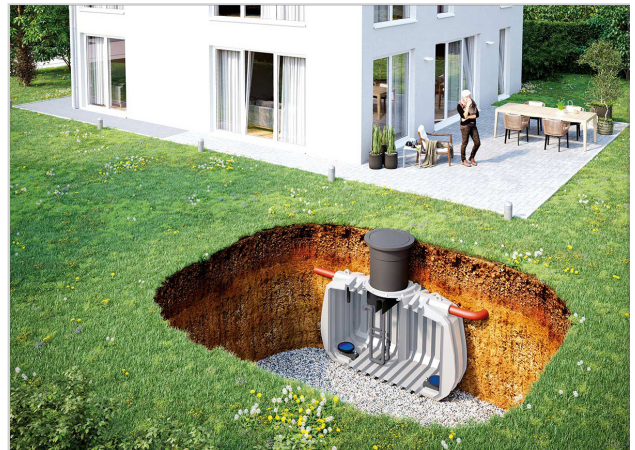
**You have the choice:**



The future-proof cleaning system

**batchpur SBR small wastewater  
treatment plants and retrofit kits**

4-50 pe



The climate-friendly and low-odor treatment  
system

**Aero SBR small wastewater treatment  
plants and retrofit kits**

4-50 pe



### EASY TO CONTROL AND MONITOR:

Optionally, batchpur and Aero small wastewater treatment plants can be monitored easily via WIFI, USB or modem! (\*Modem subject to surcharge.)

## ADDITIONAL MODULES P + H

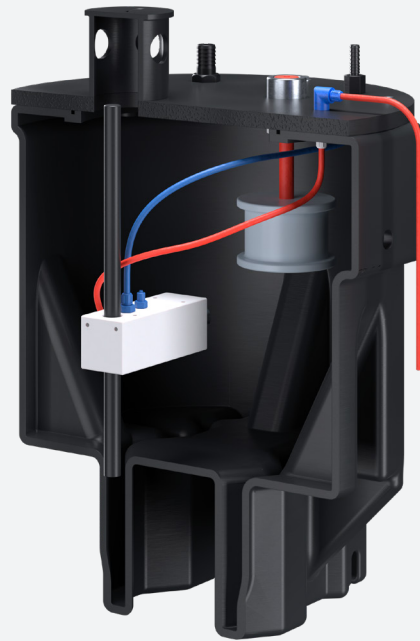
For batchpur and Aero small wastewater treatment plants and systems > 50 pe

### PHOSPHATE ELIMINATION

If you get the requirement from the local authority that you have to reduce the phosphate concentration in your wastewater, then the modular batchpur cleaning technology offers you a simple and safe solution here as well.

With the batchpur P-module you can reduce the phosphate content in your wastewater economically and environmentally friendly and, hence achieve the best effluent values.

**The solution for single-family houses, multi-family houses, hotels, restaurants, vacation & leisure facilities, retirement homes, day care facilities etc.**



The pneumatically operated P-module can be easily mounted on the partition wall.

### The advantages

- Exact dosing proportional to the wastewater volume
- Safe operation without electrical components
- Low costs, no wear
- 5 years warranty on bearing and dosing equipment
- Individually adjustable Phosphate dosing
- Quick and clean installation: Simply plug onto the partition wall
- CE-compliant testing, depending on the application, all performance and manufacturer declarations are available



## UV-DISINFECTION

### BATHING WATER QUALITY REQUIRED?

## BATCHPUR MAKES IT CLEAN WITH UV-LIGHT

With the batchpur UV-module you can efficiently disinfect your wastewater directly in your small wastewater treatment plant in a continuous process. The safe and effective technology kills all bacteria and enables the use of process water after the clearwater removal.

Easily expandable with the Batchpur P- and C4C-module.



The Batchpur UV-module is connected behind the sampling container.

### The advantages

- Safe removal of viruses and bacteria
- Low investment and operating costs
- Easy installation even in existing plants
- Can be used in all Batchpur cleaning systems
- Reduced maintenance costs – as no regular replacement of membranes is necessary
- Connection of additional sensors such as oxygen-, conductivity- or redox-sensors
- Optionally with online monitoring
- CE-compliant testing, depending on the application, all performance and manufacturer declarations are available

### New – with Easy Grip & Clean

- Toolless removal of the UV lamp from the reactor
- Easy and safe cleaning
- Easy lamp change



Our solution for the elimination of degradation-resistant micropollutants

## WE ENSURE CLEAN WATER!

The C4C-module for small wastewater treatment plants

### The solution for

- Single- /multi-family houses
- Settlements & villages
- Hotels & restaurants
- Vacation & leisure facilities
- Day care facilities
- Retirement homes



# C4C MODULE FOR BATCHPUR AND AERO SMALL WASTEWATER TREATMENT PLANTS AND SYSTEMS > 50 PE

## WE CREATE SOLUTIONS

### Alarming values in our waters

Organic micropollutants such as endocrine disruptors, pharmaceuticals, cosmetics or biocides are increasingly polluting our streams, rivers and even bathing waters!

Via domestic wastewater, these substances enter directly into the small wastewater treatment plant, where they cannot be completely eliminated in the biological treatment process due to their substance properties. They are therefore discharged directly into surface waters unhindered in ecotoxicologically relevant concentrations – The ubiquitous and steadily increasing load of micropollutants in European waters is a highly topical problem.

*Water is also our basis of life! It is an irreplaceable resource that we must protect!*

### Multi-resistant germs – a worldwide problem

The increasing spread of antibiotic-resistant pathogens is causing concern worldwide. The biggest cause of the problem lies in the use of antibiotics in human and veterinary medicine. With human excreta, resistant bacteria, along with antibiotic residues, also enter small wastewater treatment plants and further directly into our water bodies and thus back into our water cycle.

*Measures to reduce this environmental impact through expanded treatment stages in small wastewater treatment are therefore essential to protect us and our ecosystem in the long term.*

### Funded by:



Bundesministerium  
für Bildung  
und Forschung

**The solution:** Die C4C-technology from batchpur for the elimination of degradation-resistant micropollutants, viruses and bacteria in small wastewater treatment plants.

*With the C4C concept – Care for Clean Water – we set new standards in decentralized wastewater treatment!*

**The principle:** The C4C module works according to an AOP – advanced oxidation processes. In this process the micropollutants are oxidized by a VUV radiation source and the reaction with hydroxyl radicals (OH-radicals) and ozone. The micropollutants are decomposed and bacteria are killed in the process.

**Feel free to ask. We will be glad to advise you!**

### The advantages

- Removal of trace substances in domestic wastewater (80% elimination according to the Swiss approach)
- Applicable to a wide range of systems
- Integrated UV disinfection
- Easy installation
- Inexpensive
- Low maintenance
- Safe operation



## Modules for higher purification stages can be added at any time

For example, if the phosphate content in the effluent of the wastewater treatment plant is to be limited or the treated wastewater is to be sterilized: **We have the right solution.** We also have the solution for the so-called advanced purification stage, i.e. for the elimination of non-biodegradable substances, drug residues, antibiotics, etc.

### The modules at a glance

- Carbon degradation, Nitrification, Denitrification  
(Already available at no extra charge in the basic equipment of the cleaning systems)
- Phosphate elimination
- UV disinfection
- Trace substance degradation



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SCAN ME



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